

Claims

What is claimed is:

- [c1] A method of entry distribution, comprising:
receiving requests by a chaining backend from an original client;
forwarding requests from the chaining backend to a remote server; and
returning results from the remote server to the original client;
wherein the chaining backend is a type of database plug-in that acts as a
multiplexer with limited persistent storage capabilities.
- [c2] The method of claim 1, wherein the remote server is a plurality of remote servers.
- [c3] The method of claim 1, wherein standard LDAP operations are supported.
- [c4] The method of claim 1, wherein the entry distribution is hidden from the original client.
- [c5] The method of claim 1, wherein the chaining backend coexists with other backends.
- [c6] The method of claim 1, further comprising:
implementing pass-through authentication by the chaining backend.
- [c7] The method of claim 1, further comprising:
evaluating and enforcing access controls by the remote server that holds the results.
- [c8] The method of claim 1, further comprising:
evaluating and enforcing a plurality of access controls by the chaining backend.

- [c9] The method of claim 1, further comprising:
maintaining a pool of connections to the remote server by the chaining backend.
- [c10] The method of claim 9, wherein the pool of connections for a bind connection is a specific pool of connections dedicated for chaining of bind requests.
- [c11] The method of claim 1, further comprising:
examining an operation state using the chaining backend to check whether an operation is abandoned.
- [c12] The method of claim 1, further comprising:
configuring the multiplexer to return a referral that point to the remote server holding the results.
- [c13] The method of claim 1, further comprising:
forwarding a search size limit parameter to the remote server.
- [c14] The method of claim 1, further comprising:
updating a time limit parameter to account for additional processing delay introduced by the multiplexer; and
forwarding the updated time limit parameter to the remote server.
- [c15] The method of claim 1, further comprising:
implementing pass-through authentication by the chaining backend;
evaluating and enforcing access controls by the remote server that holds the results;
evaluating and enforcing a plurality of access controls by the chaining backend;
maintaining a pool of connections to the remote server by the chaining backend;
examining an operation state using the chaining backend to check whether an operation is abandoned;

configuring the multiplexer to return a referral pointing to the remote server
holding the results;
forwarding a search size limit parameter to the remote server;
updating a time limit parameter to account for additional processing delay
introduced by the multiplexer; and
forwarding the updated time limit parameter to the remote server.

- [c16] A directory server allowing entry distribution, comprising:
a chaining backend receiving a request from an original client, wherein the
chaining backend is a type of database plug-in that acts as a multiplexer
with limited persistent storage capabilities; and
a remote server receiving the request from the chaining backend;
wherein, a result is returned to the original client from the remote server.
- [c17] The directory server of claim 16, wherein the remote server is a single remote
server.
- [c18] The directory server of claim 16, wherein standard LDAP operations are
supported.
- [c19] The directory server of claim 16, wherein the entry distribution is hidden from the
original client.
- [c20] The directory server of claim 16, wherein the chaining backend coexists with other
backends.
- [c21] The directory server of claim 16, further comprising:
a pass-through authentication implemented by the chaining backend.

- [c22] The directory server of claim 16, further comprising:
a plurality of access controls evaluated and enforced by the remote server that holds the results.
- [c23] The directory server of claim 16, further comprising:
a plurality of access controls evaluated and enforced by the chaining backend.
- [c24] The directory server of claim 16, further comprising:
a pool of connections to the remote server maintained by the chaining backend.
- [c25] The directory server of claim 24, wherein the pool of connections for a bind connection is a specific pool of connections dedicated for chaining of bind requests.
- [c26] The directory server of claim 16, further comprising:
an operation state examined using the chaining backend to check whether an operation is abandoned.
- [c27] The directory server of claim 16, further comprising:
the multiplexer configured to return a referral pointing to the remote server holding the results.
- [c28] The directory server of claim 16, further comprising:
a search size limit parameter forwarded to the remote server.
- [c29] The directory server of claim 16, further comprising:
a time limit parameter updated to account for additional processing delay introduced by the multiplexer; and
an updated time limit parameter forwarded to the remote server.

- [c30]** The directory server of claim 16, further comprising:
- a pass-through authentication implemented by the chaining backend;
 - a plurality of access controls evaluated and enforced by the remote server that holds the results;
 - a plurality of access controls evaluated and enforced by the chaining backend;
 - a pool of connections to the remote server maintained by the chaining backend;
 - an operation state examined using the chaining backend to check whether an operation is abandoned;
 - the multiplexer configured to return a referral pointing to the remote server holding the results;
 - a search size limit parameter forwarded to the remote server;
 - a time limit parameter updated to account for additional processing delay introduced by the multiplexer; and
 - an updated time limit parameter forwarded to the remote server.
- [c31]** A directory server allowing entry distribution, comprising:
- means for supporting a plurality of backends;
 - means for supporting requests spanning over the plurality of backends;
 - means for supporting pluggable distribution logic; and
 - means for chaining the plurality of backends.
- [c32]** A system for entry distribution, comprising:
- means for receiving requests by a chaining backend from an original client;
 - means for forwarding requests from the chaining backend to a remote server; and
 - means for returning results from the remote server to the original client;
- wherein the chaining backend is a type of database plug-in that acts as a multiplexer with limited persistent storage capabilities.